USER MANUAL

User Manual

19” Widescreen LCD 1440 x 900

NPW119
1U LCD Drawer

Options :
- SDI
- AV / HDMI / Audio
- DC power

Contents

< Part. 1 > NPW119

1.1	Package Content	P.1
1.2	Structure Diagram & Dimension	P.1 - 2
1.3	Installation	P.3

< Part. 2 > Specifications / OSD

2.1	Product Specifications	P.4 - 5
2.2	On-screen Display Operation (OSD)	P.6 - 7

< Part. 3 > Options

3.1	3G / HD / SD-**SDI** Broadcast-grade input	P.8P. 9
3.2	HDMI, S-Video + BNC & Audio	
3.3	48V, 24V or 12VDC power	P.10

Before Installation

- It is very important to mount the equipment in a suitable cabinet or on a stable surface.
- Make sure the place has a good ventilation, is out of direct sunlight, away from sources of excessive dust, dirt, heat, water, moisture and vibration.

Unpacking

The equipment comes with the standard parts shown in package content. Check and make sure they are included and in good condition. If anything is missing, or damaged, contact the supplier immediately.

How To Clean Your LCD Monitor

Caution :

- To avoid the risk of electric shock, make sure your hands are dry before unplugging your monitor from or plugging your monitor into an electrical outlet.
- When you clean your monitor, do not press down on the LCD screen. Pressing down on the screen can scratch or damage your display. Pressure damage is not covered under warranty.
- Use only cleansers made specifically for cleaning monitors and monitor screens. Cleansers not made to clean monitors and monitor screens can scratch the LCD display or strip off the finish.
- Do not spray any kind of liquid directly onto the screen or case of your monitor. Spraying liquids directly onto the screen or case can cause damage which is not covered under warranty.
- Do not use paper towels or abrasive pads to clean your monitor. Using an abrasive pad or any wood based paper product such as paper towels can scratch your LCD screen.

Cleaning Your Monitor

To clean your LCD safely, please follow these steps :

1 Disconnect the power cord.

2 Gently wipe the surface using a clean, dry microfiber cloth. Use as little pressure as possible.

Cleaning Tough Marks and Smudges

To remove tough marks and smudges, please follow these steps :

1 Disconnect the power cord.

2 Spray a small amount of non-abrasive cleanser on a microfiber cloth.

Caution : Do not spray or apply any liquids directly onto the monitor. Always apply the solution to your microfiber cloth first, not directly on the parts you are cleaning.

3 Gently wipe the surface. Use as little pressure as possible.

4 Wait until your monitor is completely dry before plugging it in and powering it up.

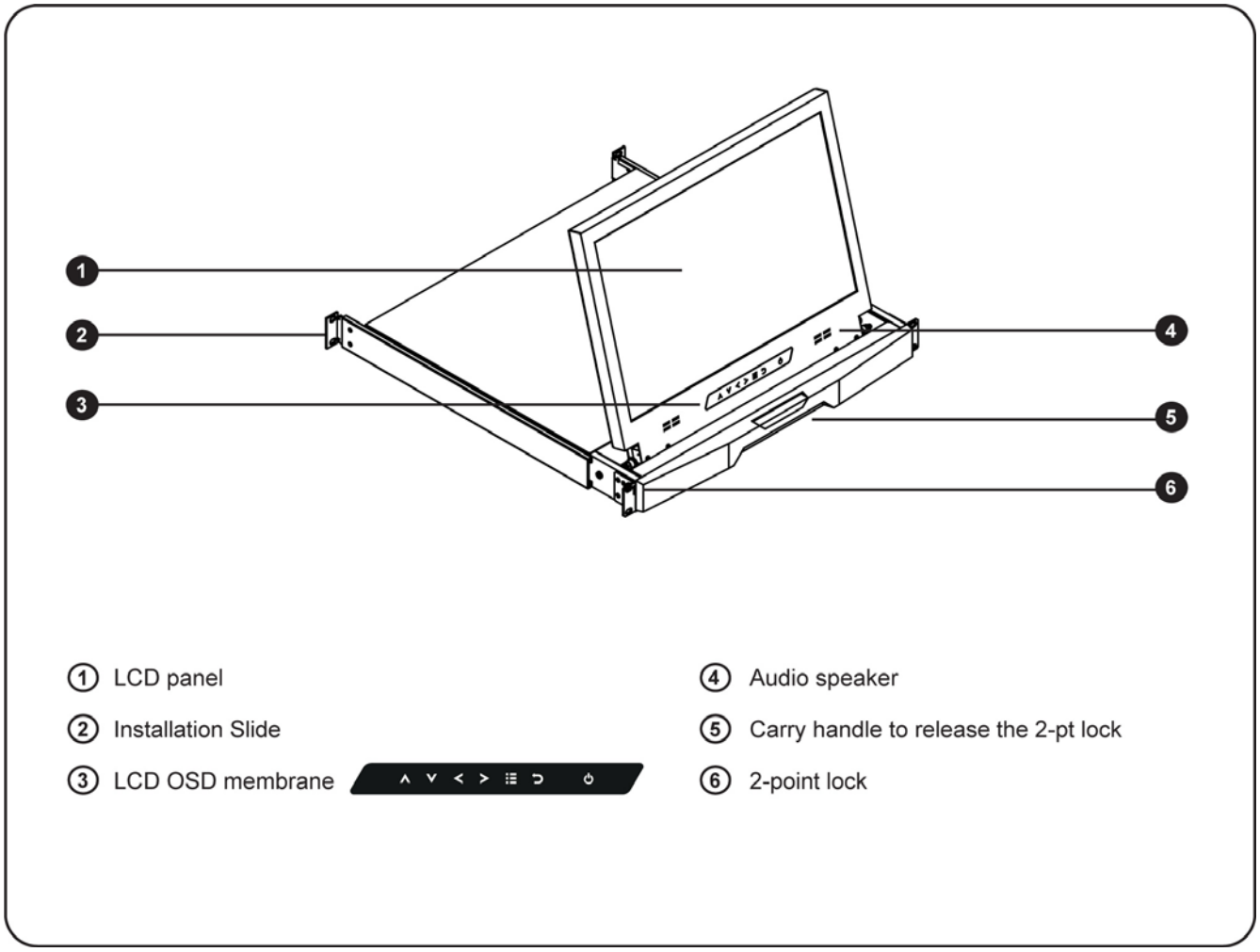
<Part 1 >
< 1.1 > Package Content

NPW119 unit X 1

- 6ft VGA cable X 1
- Power cord X 1
- M6 screw, cage nut & cup washer X 8

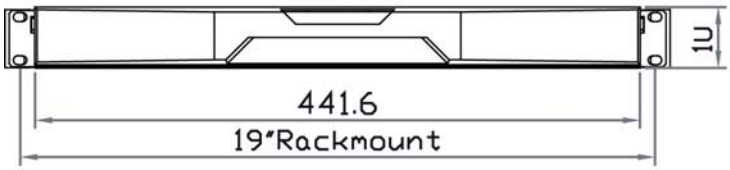
The above package content is only for the pure model (VGA and DVI-D only). It varies with options such as SDI, HDMI, AV, audio & DC power.

< 1.2 > Structure Diagram



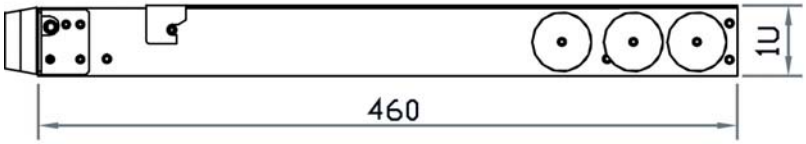
< 1.2 > Dimension

Front View

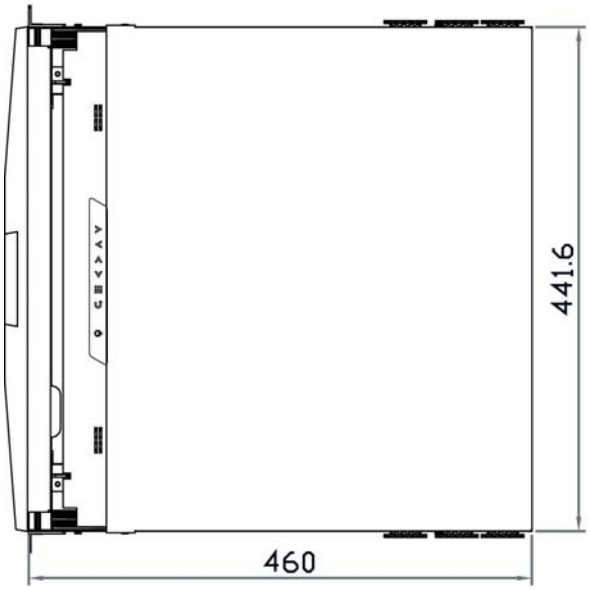


Side View

UNIT : mm
1mm = 0.03937 inch



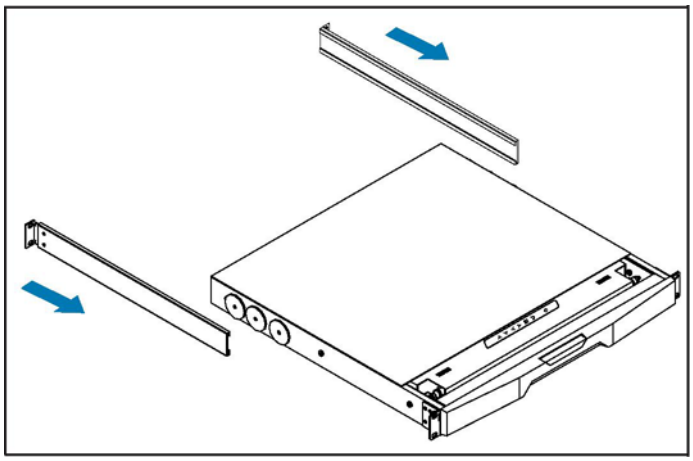
Top View



Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
NPW119	441.6 x 460 x 44 mm 17.4 x 18.1 x 1.73"	590 x 687 x 120 mm 23.2 x 27 x 4.7”	13 kg 28.6 lb	17 kg 37.4 lb

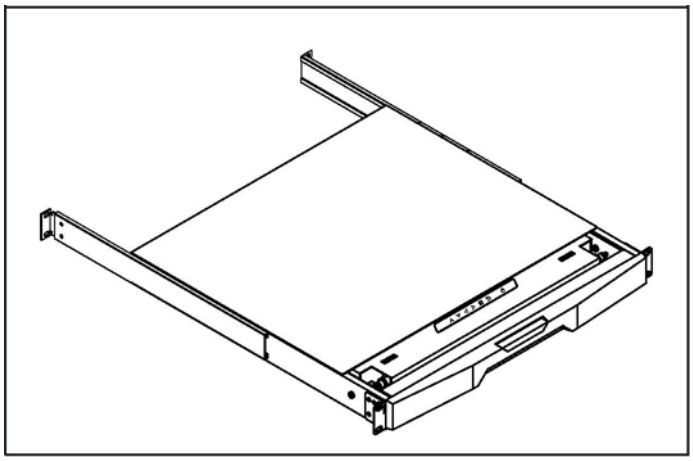
The weight is only for the pure models. It varies with accessories & options such as SDI, HDMI, AV, audio & DC power.

< 1.3 > Installation - How to install Installation Slides NPW119



Step 1

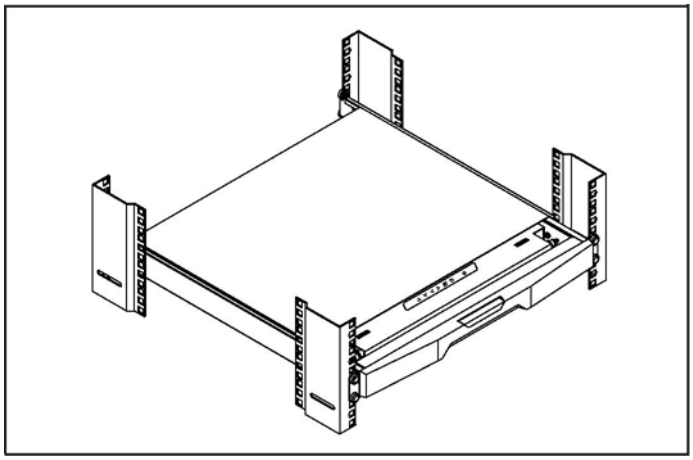
■ Insert the left and right rear mounting bracket into the display drawer.



Step 2

■ Measure the depth of the front and rear mounting rails.

■ Align each rear mounting bracket to a suitable length.



Step 3

Complete the installation

■ Fix the display drawer into the rack.

M6 screw, cage nut & cup washer x 8 are provided.

<Part 2 >
< 2.1 > Product Specifications

LCD Panel	Manufacturer	**Samsung**
	Panel Size (diagonal)	19-inch Widescreen TFT color LCD
	Display pixel (dots x lines)	1440 x 900
	Brightness (typ.)	250
	Contrast Ratio (typ.)	1000:1
	Color	16.7 M
	Viewing Angle (L/R/U/D)	80/80/80/80
	Response Time (ms)	5
	Dot pitch (mm)	0.2835
	Display Area (mm)	408.24H x 255.15V
	Surface treatment	Haze 25%, Hard-coating
	Surface hardness	3H
	Backlight Type	LED
	MTBF (hrs)	30,000

Video Connectivity	Digital	HDMI	HDMI 1.1, CEA-861-D
		DVI	DVI-D, TMDS single link
	Analog	VGA	Analog 0.7Vp-p
		Composite (BNC)	NTSC & PAL
		S-Video (4-pin)	NTSC & PAL
	Plug & Play	DVI / VGA	VESA EDID structure 1.3
	Synchronization	VGA	Separate, Composite & SOG

Audio Connectivity	Audio Input	Connector	3.5mm stereo jack
		Impedance / Power level	30kQ / 750mV
	Audio Output	Connector	3.5mm stereo jack
		Resistance / Power level	30kQ / 2.8V
	Speaker Output	Power	2 x 2W

*When the audio output is connected, speaker output is OFF

Power	Power Supply	Range	Auto-sensing 100 to 240VAC, 50 / 60Hz
	Power Consumption	Screen display ON	25W or less
		Power saving mode	4W or less
		Power button OFF	1W or less

Regulatory	Safety Approval	cUL, FCC & CE, RoHS

Environmental Conditions	Operating	Temperature	0 to 50°C degree
		Humidity	20~90%, non-condensing
	Storage	Temperature	-5 to 60°C degree
		Humidity	5~90%, non-condensing
		Shock	10G acceleration (11ms duration)
		Vibration	5~500Hz 1G RMS random

Physical Specifi cation	Product (W x D x H)	441.6 x 460 x 44 mm 17.4 x 18.1 x 1.73 inch
	Packing (W x D x H)	590 x 687 x 120 mm 23.2 x 27 x 4.7 inch
	Net Weight	13 kgs / 28.5 lbs
	Gross Weight	17 kgs / 37.4 lbs

Applicable Format	DVI-D / VGA Input	PC Signal	1440 x 900 x 60Hz
			1280 x 1024 x 60 / 75Hz
			1280 x 960 x 60Hz
			1280 x 760 x 60 / 75Hz
			1152 x 864 x 75Hz
			1024 x 768 x 60 / 70 / 75Hz
			848 x 480 x 60Hz
			800 x 600 x 60 / 72 / 75Hz
			720 x 400 x 70Hz
			640 x 480 x 60 / 72 / 75Hz
			640 x 400 x 70Hz
			640 x 350 x 70Hz

< 2.2 > On-screen Display Operation (OSD)

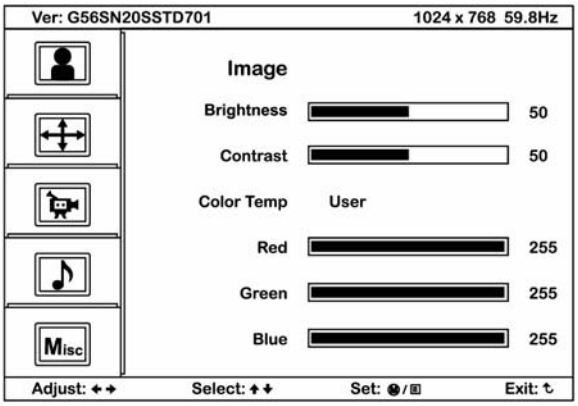
Membrane Switch	Function
	Turn the monitor on or off
	Display the OSD menu Act as an Enter key to select screen setting options
	Scroll through menu options and adjust the displayed control
	Exit the OSD screen Go back to the previous on-screen sub-menu or main menu

Remark : All LED touch buttons in **WHITE** light.
The LED of **Power** touch button will flash continuously when there is no signal input.

① All the LED touch buttons will automatically turn off after 10 minutes of idle status (except the **Power**).

② Light up all membrane buttons, please press any button for 1 - 2 seconds (except the **Power**).

< 2.2 > On-screen Display Operation (OSD) NPW119



OSD Configuration Page

Image:
for the brightness, contrast, color temp, red, green, and blue

Geometry:
for the auto adjust, H position, V position, phase and clock

Video:
for the colour, tint, sharpness, noise reduction, DCDi and TV Setup

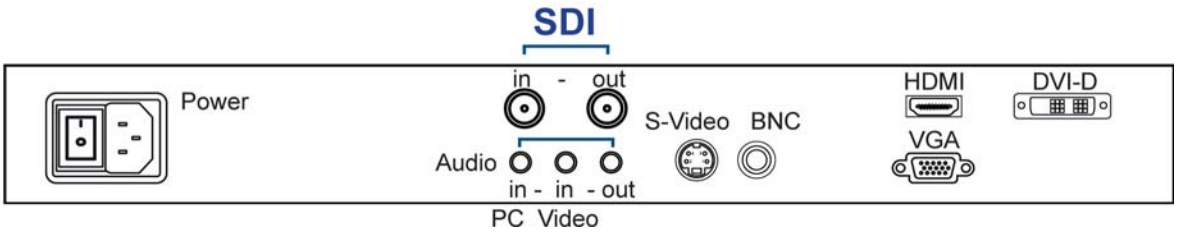
Audio:
for volume, bass, treble, balance, AVL and mute

Misc:
for the language, OSD position, graphic mode, ratio, reset and timer

<Part 3 >
< 3.1 > Options : 3G / HD / SD-SDI input

iTech' SDI input is an ideal solution for the broadcast-grade video and high resolution CCTV market.

Designed for use with NetView Full HD 1080p and ultra high resolution 1920 x 1200 LCD displays, iTech provides a SDI input module without using additional space or power and it comes standard with a 2-year warranty.



For SDI option, casing depth will be extended from 460mm (18.1") to 530mm (20.9")

INPUT	3G-SDI IN	BNC x 1 / 0.8Vp-p (75 ohm)
	3G-SDI OUT	BNC x 1 / Active through, equalized & relocked
Standard Compliance	Video	SMPTE 425M / 274M / 296M / 125M ITU-R BT.656
	Audio	SMPTE 299M / 272M-C
Compatible Video Format	3G-SDI	1080p @60 / 50Hz, 4:2:2 1080p @30 / 25 / 24Hz, 4:4:4 1080i @60 / 50Hz, 4:4:4 720p @60 / 50Hz, 4:4:4
	HD-SDI	1080p @30 / 25 / 24Hz, 4:2:2 1080i @60 / 50Hz, 4:2:2 720p @60 / 50Hz, 4:2:2
	SD-SDI	480i @60Hz, 4:2:2
	ITU-R BT.656	576i @50Hz, 4:2:2
Compatible Audio Format	3G-SDI	48kHz, 16 / 20 / 24 bit, 2 CH, Synchronized Video
	HD-SDI	48kHz, 16 / 20 / 24 bit, 2 CH, Synchronized Video
	SD-SDI	48kHz, 16 / 20 / 24 bit, 2 CH, Synchronized / Asynchronized Video
Max. Transmission Distance 75 ohm coaxial cable	3G-SDI	150m at 2.97Gb/s
	HD-SDI	250m at 1.485Gb/s
	SD-SDI	480m at 270Mb/s

< 3.2 > Options :

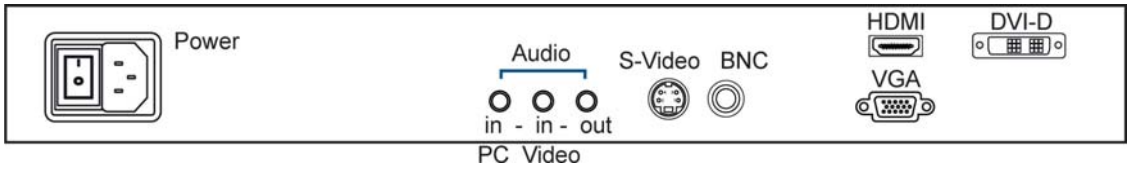
NPW119

HDMI (HDMI 1.1, CEA-861-D)

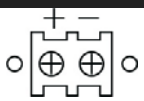
AV (S-Video + Composite, BNC)

Audio (3.5mm audio jacks for audio in & out, and 2W + 2W speakers)

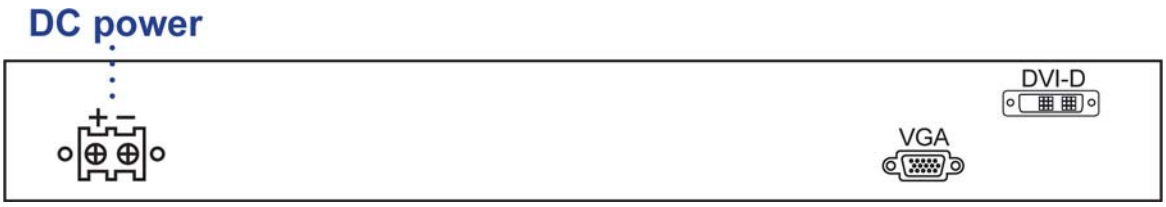
(1) Either HDMI or DVI-D can be selected.
(2) For the above options, casing depth will be extended from 460mm (18.1") to 530mm (20.9")



< 3.3 > Options : DC Power



Model	12V	24V	48V
Input rating			
Input voltage:	12-Volt	24-Volt	48-Volt
Input range:	9 ~ 18V	18 ~ 36V	36 ~ 75V
Input current			
- No load	50 mA	50 mA	50 mA
- Full load	4950 mA	2450 mA	1220 mA
Output rating			
Output voltage:	12-Volt	12-Volt	12-Volt
Output current:	4.16A	4.16A	4.16A
Efficiency	84%	85%	85%



*** **For DC power option:**

(1) Option excludes 1 x power cord and 1 x AC power adapter.

(2) Casing depth will be extended from 460mm (18.1") to 530mm (20.9")